Random Number Algorithms Solutions

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std::shuffle()

- What does shuffle() do?
  - shuffle() randomly rearranges the elements
- What arguments does shuffle() take?
  - The iterator range of the elements and a random engine instance
- Write a simple program that uses shuffle()

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bernoulli_distribution

- Describe what bernoulli_distribution does
  - bernoulli_distribution converts a sequence of numbers into bools
- Write a simple program which uses bernoulli_distribution

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- Suggest some applications where shuffle() and the bernoulli_distribution could be useful
  - Card games (shuffling the pack)
  - Music players (shuffling the playlist)
  - Game strategy (making a 50-50 decision)
  - Game animation (making characters move more realistically)

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